

Particulate Respirators 8233, N100 and 8293, P100

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The 3M™ Particulate Respirators 8233, N100 and 8293, P100 are well suited for those who want NIOSH's highest rated filtration efficiency in a maintenance free respirator. These respirators are an excellent choice for lead abatement, pharmaceutical manufacturing, welding and work involving substance specific regulated particles* (excluding asbestos).

The 8233 and 8293 offer a number of benefits to you and your workers:

NIOSH approved 8233, N100

- At least 99.97% filtration efficiency against solid and liquid aerosols that do not contain oil.** TC-84A-1298

NIOSH approved 8293, P100

- At least 99.97% filtration efficiency against solid and liquid aerosols including oils.** TC-84-2561

3M™ Cool Flow™

Exhalation Valve

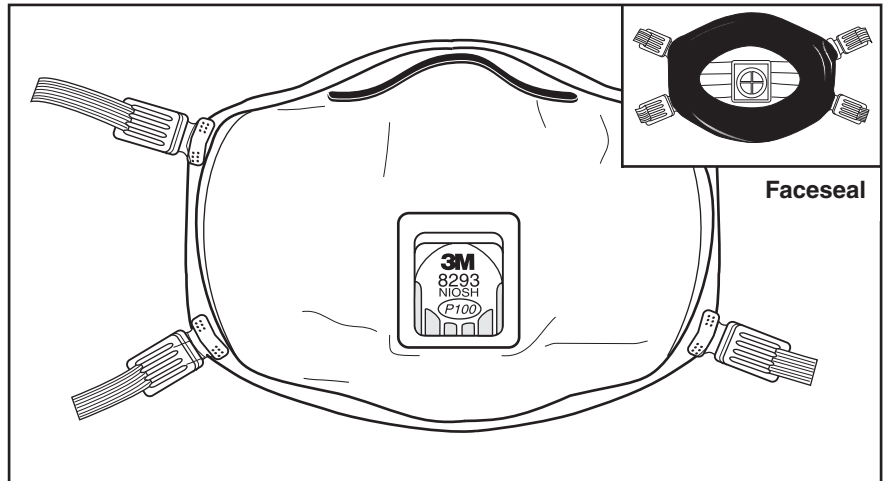
- Proprietary one-way valve offers easy exhalation and cool, dry comfort.

Face seal

- Comfortable to wear.
- Contours easily to help provide a good seal.

Adjustable noseclip

- Helps provide a custom fit and secure seal.
- Reduces the potential for eyewear fogging.



3M™ Particulate Respirator 8293, P100

Lightweight construction

- Promotes greater worker comfort.
- Contributes to increased wear time.

The 8293 may be used in environments that may contain oil aerosols.

All filter design

- Provides economical protection.
- No spare parts to maintain.
- Promotes easier communication.

Suggested Applications



- OSHA substance specific particle exposures*
 - Lead
 - Cadmium
 - Arsenic
 - 4,4'-Methylenedianiline (MDA)
- Pharmaceutical manufacturing



- Welding
- Brazing
- Soldering
- Torch cutting
- Metal pouring



⚠ WARNING

These respirators help reduce exposure to certain particles. **Misuse may result in sickness or death.** Before use, the wearer must read and understand **User Instructions** provided as a part of product packaging. Time use limitations may apply. For proper use, see package instructions, supervisor or call 3M OH&ESD Technical Service in U.S.A., 1-800-243-4630. In Canada, call 1-800-267-4414.

* Substance specific regulated particles include but are not limited to lead, cadmium, arsenic, 4,4'-Methylenedianiline (MDA) in concentrations up to 10 X the OSHA PEL. Do not use for asbestos exposures.

** Tested against particles approximately 0.3 micron in size (mass median aerodynamic diameter) per 42 CFR 84.

Respirators Per Bag	Respirators Per Case
1	20

Use For:

- Solids such as those from processing minerals, coal, iron ore, flour, and other certain substances.
- Liquid or non-oil based particles from sprays that do not also emit **harmful** vapors.
- Metal fumes produced from welding, cutting and other operations involving heating of metals.
- Certain radioactive particulate material.
- **8293 only**—Liquid or oil based particles from sprays that do not also emit harmful vapors.

Do Not Use For:

Gases, vapors, including those present in paint spraying operations, asbestos or sandblasting. Aerosol concentrations that exceed 10 times the OSHA PEL, or applicable government regulations, whichever is lower. **Do not use the 8233 for oil aerosols.** These respirators do not supply oxygen.



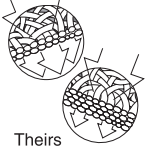
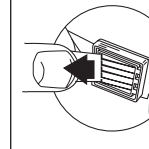
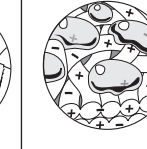
Important

Before using these respirators, you must determine the following:

1. The type of contaminant(s) for which the respirator is being selected.
2. The concentration level of contaminant(s).
3. Whether the respirator can be properly fitted on the wearer's face. Do not use with beards, on other facial hair, or other

3M Occupational Health and Environmental Safety Division
3M Center, Building 235-2W-70
St. Paul, MN 55144-1000

Technologies (Check marks indicate technologies featured in these products.)

					
3M™ Cool Flow™ Exhalation Valve Proprietary one-way valve for easy exhalation and cool, dry comfort.	Face Seal Soft and secure, conforms closely to face for long-lasting comfort and protection.	Advanced Electret Media Advanced electrostatically charged microfibers make breathing easier and cooler.	Fully Adjustable Straps A single tug helps provide a comfortable, secure fit.	P-Series Filter Featuring Advanced Electret Media, appropriate for prolonged use in both oil- and non-oil-containing environments.	
✓	✓	✓	✓	8233	8293
					✓

conditions that prevent a good seal between the face and the face seal of the respirator.

4. Before use of these respirators, a written respiratory protection program must be implemented, meeting all the requirements of OSHA 29 CFR 1910.134, including training, medical evaluation and fit testing.

Time Use Limitation—8233

If respirator becomes damaged, soiled, or breathing becomes difficult, leave the contaminated area immediately and dispose of the respirator.

Time Use Limitation—8293

If respirator becomes damaged, soiled, or breathing becomes difficult, leave the contaminated area immediately and dispose of the respirator. If used in environments containing only oil aerosols, dispose of respirator after 40 hours of use or 30 days, whichever is first.

Additional Information

This respirator contains no components made from natural rubber latex.

For more information, please contact:

3M Occupational Health and Environmental Safety Division (OH&ESD)

In the U.S., contact:

Sales Assistance
1-800-896-4223
Technical Assistance
1-800-243-4630
Fax On Demand
1-800-646-1655
Internet
<http://www.3M.com/occsafety>
For other 3M products
1-800-3M HELPS

In Canada, contact:

3M Canada Company, OH&ESD
P.O. Box 5757
London, Ontario N6A 4T1
Sales Assistance
1-800-265-1840, ext. 6137
Technical Assistance (Canada only)
1-800-267-4414
Fax On Demand
1-800-646-1655
Internet
<http://www.3M.com/CA/occsafety>

Technical Assistance In Mexico

01-800-712-0646
5270-2255, 5270-2119 (Mexico City only)

Technical Assistance In Brazil
0800-132333

Fax On Demand O.U.S. Locations
1-651-732-6530